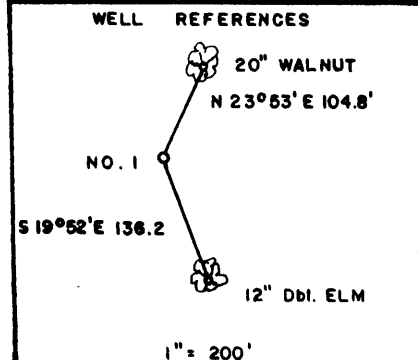
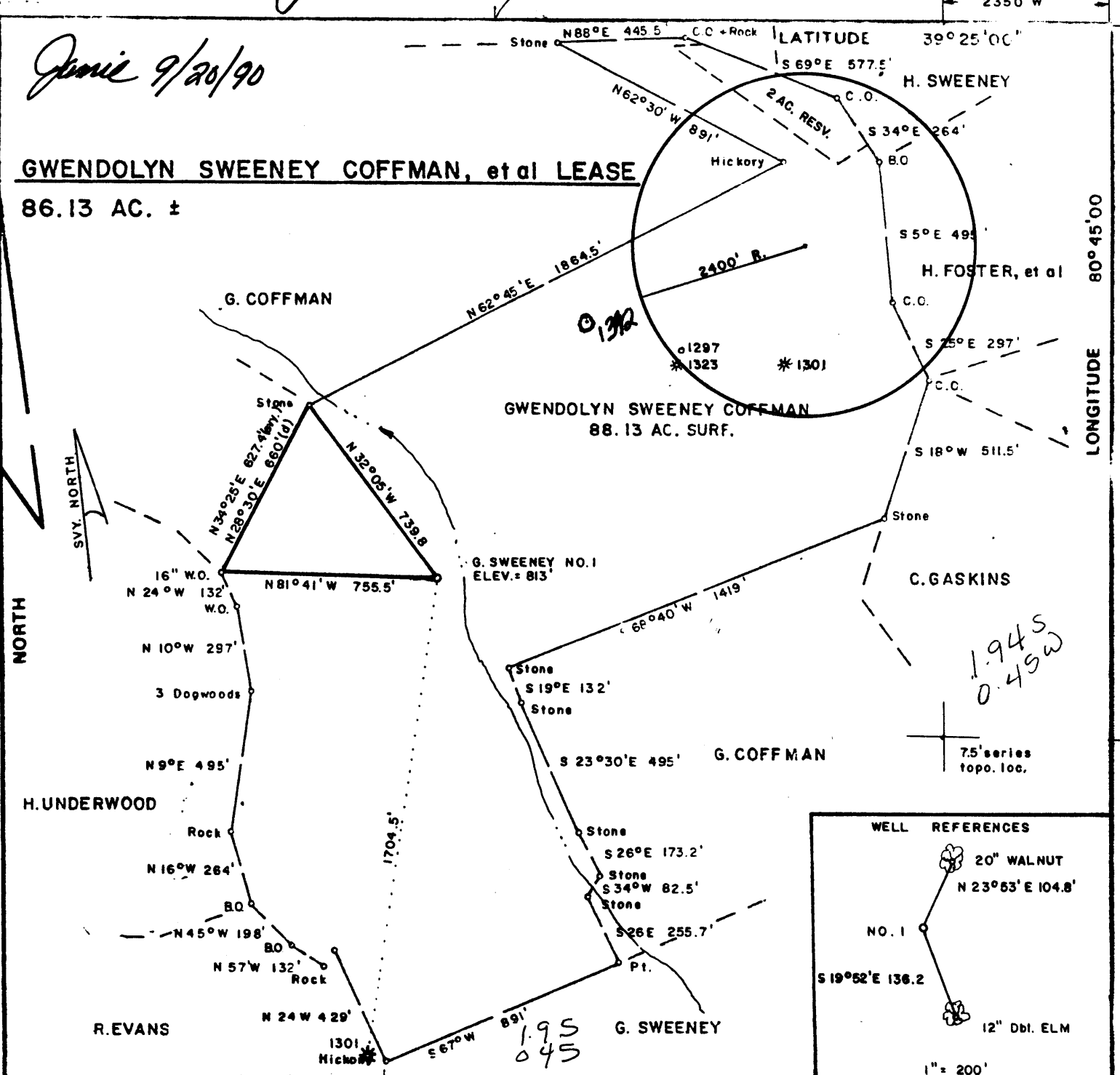


June 9/20/90

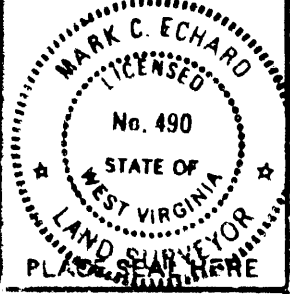
GWENDOLYN SWEENEY COFFMAN, et al LEASE

86.13 AC. ±



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB EAST OF LOC. ELEV. = 1312'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Mark C. Echard
 MARK C. ECHARD
 R.P.E. _____ L.L.S. 49%



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE SEPTEMBER 13, 19 90
 OPERATOR'S WELL NO. ONE
 API WELL NO. 47-095-1434-F
 STATE TYLER COUNTY TYLER PERMIT

**STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION**

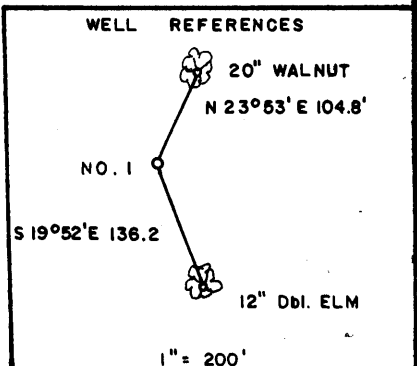
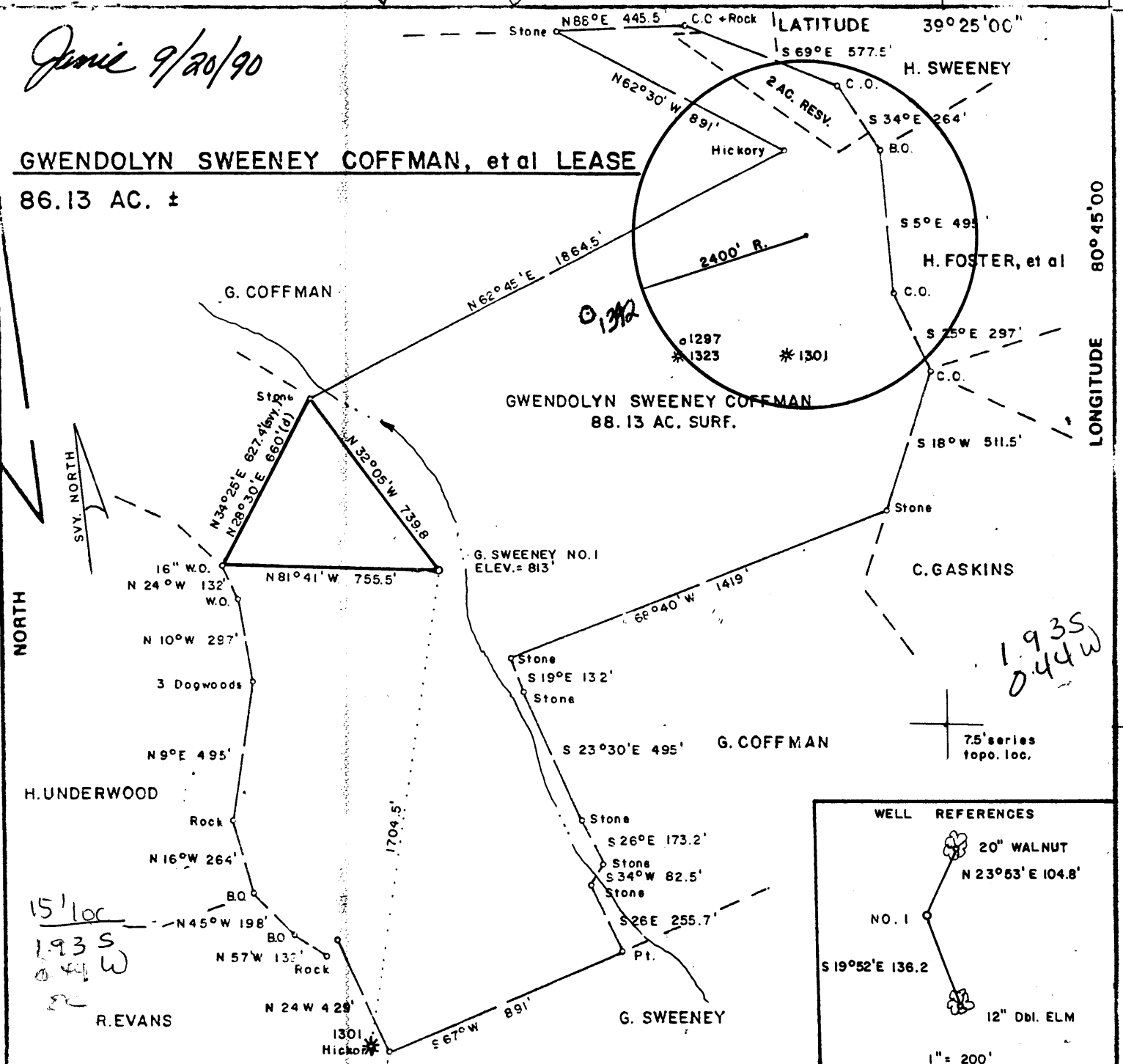
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 813' WATER SHED SANDY RUN
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5' WU EC
 SURFACE OWNER GWENDOLYN SWEENEY COFFMAN ACREAGE 88.13
 OIL & GAS ROYALTY OWNER GWENDOLYN SWEENEY COFFMAN, et al LEASE ACREAGE 86.13 of 88.13
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION BENSON ESTIMATED DEPTH 5300' ±
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99
ALMA, W.V. 26320 ALMA, W.V. 26320

TYLER 1434

June 9/20/90

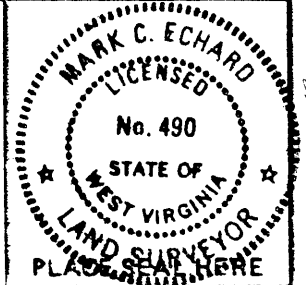
GWENDOLYN SWEENEY COFFMAN, et al LEASE

86.13 AC. ±



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB EAST OF LOC. ELEV = 1312'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
Mark C. Echard
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)

DATE SEPTEMBER 13, 19 90
 OPERATOR'S WELL NO. ONE
 API WELL NO. 47-095-1434
 STATE WEST VIRGINIA COUNTY TYLER PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 813' WATER SHED SANDY RUN
 DISTRICT McELROY S COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5' Union

SURFACE OWNER GWENDOLYN SWEENEY COFFMAN ACREAGE 88.13
 OIL & GAS ROYALTY OWNER GWENDOLYN SWEENEY COFFMAN, et al LEASE ACREAGE 86.13 of 88.13
 LEASE NO. _____

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION BENSON ESTIMATED DEPTH 5300' ±
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON
 ADDRESS P.O. BOX 99 ALMA, W.V. 26320 ADDRESS P.O. BOX 99 ALMA, W.V. 26320

SEP 24 1990

6-6 Wilbur (092)

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Permitting
Section of Oil & Gas

Well Operator's Report of Well Work

Farm name: GLASPELL, ARBY Operator Well No.: GWENDOLYN #1

LOCATION: Elevation: 813.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER
Latitude: 10100 Feet South of 39 Deg. 25Min. Sec.
Longitude 2350 Feet West of 80 Deg. 45 Min. Sec.

Company: DRILLING APPALACHIAN CORP
P. O. BOX 99
ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: MIKE UNDERWOOD
Permit Issued: 11/22/93
Well work Commenced: 11/22/93
Well work Completed: 11/22/93
Verbal Plugging
Permission granted on: _____

Rotary Cable _____ Rig _____
Total Depth (feet) 4975
Fresh water depths (ft) 85, 540

Salt water depths (ft) 1200

Is coal being mined in area (Y/N)? _____
Coal Depths (ft): N

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4	103	103	CTS
8-5/8	946	946	CTS
4-1/2		4945	235 sks sqz 280sks

OPEN FLOW DATA

Producing formation Benson Sand Pay zone depth (ft) 4853-57
Gas: Initial open flow _____ MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 120 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1500 psig (surface pressure) after 48 Hours

Second producing formation Gordon Sand Pay zone depth (ft) 2549-56
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Kenneth Mason
For: DRILLING APPALACHIAN CORP.

By: _____
Date: 12-20-93

280 sacks of cement were squeezed from a depth of 2826', cement top was at 2450'. The well was perforated in the Gordon Sand at a depth of 2449'-2556' with 10 shots, 0.39" hollow steel carrier. Bridge plug was set at a depth of 2858'. The well was fractured with a 20# gelled water system, 426 bbls of water 64,000 SCF nitrogen gas, and 40,000# 20/40 sand. Formation break was 1888 psi, avg treatment psi, 2284, avg fluid rate, 15.12bbls/min. ISIP 1475 psi. Bridge plug drilled out.

new
zone
comp

Permian Sands/Shales	Surface	500
Pennsylvanian Sands/Shales	500	1730
Big Lime	1731	1788
Big Injun Sand	1789	1868
Squaw Sand	1880	1952
Shale	1953	2105
Weir Sand	2106	2188
Shale	2189	2302
Gantz Sand	2303	2311
Shale/Siltstone	2312	2523
Gordon Sand	2524	2566
Shale/Siltstone	2567	3182
Warren	3183	3218
Shale/Siltstone	3219	3455
Siltstone	3456	3592
Shale/Siltstone	3593	4135
Balltown	4136	4192
Shale/Siltstone	4193	4369
Riley	4370	4418
Shale/Siltstone	4419	4843
Benson	4844	4849
Shale/Siltstone	4850	4975
TD		4975

18145

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: COFFMAN, GWENDOLYN S. Operator Well No.: GWENDOLYN #1

LOCATION: Elevation: 813.00 Quadrangle: SHIRLEY

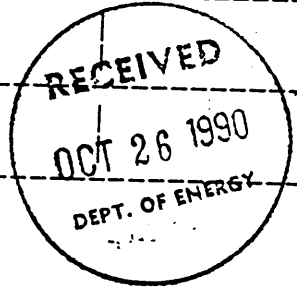
District: MCELROY County: TYLER
Latitude: 10100 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 2350 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: DRILLING APPALACHIAN CORP
P. O. BOX 99
ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: GLEN P. ROBINSON
Permit Issued: 09/21/90
Well work Commenced: 9/25/90
Well work Completed: 10/9/90
Verbal Plugging
Permission granted on: N/A
Rotary X Cable Rig
Total Depth (feet) 4975
Fresh water depths (ft) 85, 540
Salt water depths (ft) 1200
Is coal being mined in area (Y/N)?
Coal Depths (ft): N

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	103	103	CTS
8-5/8"	946	946	CTS
4-1/2"		4945	235 sks



OPEN FLOW DATA

Producing formation Benson Sand Pay zone depth (ft) 4853-57
Gas: Initial open flow show MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 120 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1500 psig (surface pressure) after 48 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: DRILLING APPALACHIAN CORP.

By: Kenneth R. Mason
Date: 10/23/90 OCT 30 1990

Perfed 4853'-4857', 17 shots, .39

Fraced with 20# gelled water, 650 bbls, 90,000SCF nitrogen gas,
10,000# 80/100, 40,000# 20/40 sand
Formation break 2012psi, second break at 13 bbl/min
was 2650psi. Avg psi 2446, Avg fluid rate 16 bbl/min
ISIP 2080psi

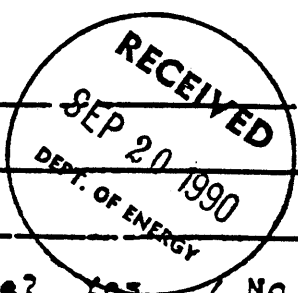
Permian Sands/Shales	Surface	500
Pennsylvanian Sands/Shales	500	1730
Big Lime	1731	1788
Big Injun Sand	1789	1868
Squaw Sand	1880	1952
Shale	1953	2105
Weir Sand	2106	2188
Shale	2189	2302
Gantz Sand	2303	2311
Shale/Siltstones	2312	2523
Gordon Sand	2424	2566
Shale/Siltstone	2567	3182
Warren	3183	3218
Siltstones	3219	3455
Speechley	3456	3592
Shale/Siltstone	3593	4135
Balltown	4136	4192
Shale/Siltstone	4193	4369
Riley	4370	4418
Shale/Siltstones	4419	4843
Benson	4844	4849
Shale/Siltstone	4850	4975
TD		4975

11295

OCT 30 1990

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: ³¹¹ Drilling Appalachian Corporation 14425 (5) 606
- 2) Operator's Well Number: Gwendolyn #1 3) Elevation: 813'
- 4) Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep Shallow
- 5) Proposed Target Formation(s): Benson 435
- 6) Proposed Total Depth: 5300± feet
- 7) Approximate fresh water strata depths: 373'±
- 8) Approximate salt water depths: 883'±
- 9) Approximate coal seam depths: 364-368'±
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: Drill, perforate, stimulate new formation
- 12) New Well



CASING AND TUBING PROGRAM

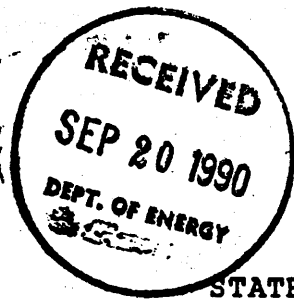
TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
<u>2 1/2 9/17/90</u> Conductor	11-3/4	H-40	324	100'	<u>100'</u>	CTS
Fresh Water						
Coal						
Intermediate	8-5/8	J-55	204	950'	<u>950'</u>	38CSR18-11.3
Production	4-1/2	J-55	1044	5000'	<u>5000'</u>	38CSR19.11-1
Tubing						
Linings						

PACKERS : Kind _____
Sizes _____
Depths set _____

5829
27

FOR Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-28 Bond Surety Bond Agen
 (Type)



- 1) Date: Sept. 14, 1990
- 2) Operator's well number Gwendolyn #1
- 3) API Well No: 47 - 095 - 1434
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Gwendolyn S. Coffman
Address CP Star Route, Box 166
West Union, WV 26456
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name ---
Address _____
 - (b) Coal Owner(s) with Declaration
Name _____
Address _____
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Glen Robinson
Address Rt 1, No. 6, Mt. Pleasant
Mineral Wells, WV 26150
Telephone (304)- 863-8766

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
x Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 5 on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

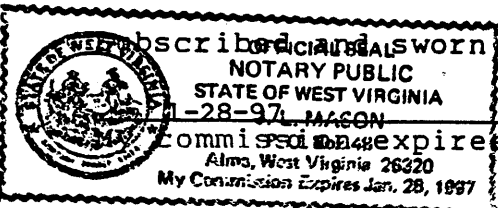
I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Drilling Appalachian Corporation
 By: Kenneth Mason
 Its: President
 Address P. O. Box 99
Alma, WV 26320
 Telephone 304-758-4638

Subscribed and sworn before me this 14th day of September, 19 90



1-28-97 _____ Notary Public